

Claims

1. A method of operating a telecommunications system comprising the steps of providing in a radio link, a sequence of time frames, each time frame including a plurality of time slots, each time slot having an allocated channel, characterised in that the positions of said time slots and/or said allocated channels are changed in subsequent time frames of said sequence in a predetermined manner.
2. The method according to Claim 1, wherein the positions of said time slots and/or said allocated channels are changed in consecutive time frames of said sequence.
3. The method according to Claim 1, wherein said predetermined manner is provided by a deterministic sequence.
4. The method according to Claim 3, wherein the sequence is a cyclic rotation of the channel positions.
5. The method according to Claim 4, wherein the cyclic sequence rotates the time slots by one time slot within each succeeding time frame.
6. The method according to Claim 3, wherein a mobile station computes the sequence as a real time computation for each time frame.
7. The method according to Claim 1, wherein in an initial set up operation, a base station instructs a mobile station to transmit and/or receive in certain time slots, and that these time slots should be changed in subsequent frames in accordance with an algorithm.
8. The method according to Claim 7, wherein the base station transmits at least part of the algorithm to the mobile station.
9. The method according to Claim 1, wherein said plurality of time slots constitute all the time slots of the time frame.
10. The method according to Claim 1, wherein the system is UMTS operating in TDD mode, each base station is a node B and each mobile station is a UE, and said channels are physical channels.

11. An apparatus for providing time division operation of a telecommunications system in a radio link between a base station and mobile stations, the apparatus comprising:

means for providing a series of time frames, each time frame including a plurality of time slots, means for allocating a predetermined channel to each said time slot, characterised by means for changing the positions of said time slots and/or the allocated channels in subsequent frames of the series in a predetermined manner.

12. The apparatus according to Claim 11, wherein said means for changing changes the positions of said time slots and/or said allocated channels in consecutive time frames of said sequence.

13. The apparatus according to Claim 11, wherein said predetermined manner is provided by a deterministic sequence.

14. The apparatus according to Claim 13, wherein the sequence is a cyclic rotation of the channel positions.

15. The apparatus according to claim 14, wherein the cyclic sequence rotates the time slots by one time slot within each succeeding time frame.

16. The apparatus according to any of Claim 13, further comprising a mobile station having means to compute the sequence as a real time computation for each time frame

17. The apparatus according to Claim 11, further comprising a base station for instructing a mobile station to transmit and/or receive in certain time slots, and to instruct the mobile station that these time slots should be changed in subsequent frames in accordance with an algorithm.

18. The apparatus according to Claim 17, wherein the base station is arranged to transmit at least part of the predefined algorithm to the base station.

19. The apparatus according to Claim 11, wherein said plurality of time slots constitute all the time slots of the time frame.

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